

Title (en)
Progressive tire tread wear indicator

Title (de)
Progressiver Laufflächenverschleiss-Anzeiger für Reifen

Title (fr)
Indicateur d'usure progressif de la bande de roulement d'une pneumatique

Publication
EP 1524131 A2 20050420 (EN)

Application
EP 04104927 A 20041008

Priority
US 68872703 A 20031017

Abstract (en)
A tire tread has at least one cavern (16) formed in the sidewall of the traction elements of the tire. The cavern (16) has a base (18) with information therein to indicate the state of wear of the tire and a ceiling (20) that is progressively worn away as the tread wears. Multiple caverns (16) may be formed in the traction elements. If arranged in a series at progressively increasing or decreasing radial heights, the remaining tread life is communicated to an operator. If the caverns (16) are located in different locations of the tread, relative wear patterns of the tire can also be indicated.
<IMAGE>

IPC 1-7
B60C 11/24

IPC 8 full level
B60C 11/13 (2006.01); **B60C 11/24** (2006.01)

CPC (source: EP US)
B60C 11/032 (2013.01 - EP US); **B60C 11/24** (2013.01 - EP US); **B60C 2011/133** (2013.01 - EP US); **Y10T 152/10027** (2015.01 - EP US)

Cited by
EP2050589A1; EP3437898A1; FR2962373A1; FR3060457A1; CN110049885A; EP1871622A4; CN106042789A; JP2019026241A; US11214100B2; US8695655B2; WO2015063652A1; WO2018115674A1; US9333810B2; US11220139B2; EP2998131A1; DE102014218580A1

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DE FR GB

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